

Title (en)  
VITAL SIGNS MONITORING SYSTEM

Title (de)  
ÜBERWACHUNGSSYSTEM FÜR LEBENSFUNKTIONEN

Title (fr)  
SYSTÈME DE SURVEILLANCE DE SIGNES VITAUX

Publication  
**EP 3474741 A2 20190501 (EN)**

Application  
**EP 17755620 A 20170811**

Priority  
• US 201662374615 P 20160812  
• US 2017046521 W 20170811

Abstract (en)  
[origin: US2018042556A1] This relates to a monitoring system capable of measuring a plurality of vital signs. The monitoring system can include a plurality of sensors including, but not limited to, electrodes, piezoelectric sensors, temperature sensors, and accelerometers. The monitoring system can be capable of operating in one or more operation modes such as, for example: capacitance measurement mode, electrical measurement mode, piezoelectric measurement mode, temperature measurement mode, acceleration measurement mode, impedance measurement mode, and standby mode. Based on the measured values, the monitoring system can analyze the user's sleep, provide feedback and suggestions to the user, and/or can adjust or control the environmental conditions to improve the user's sleep. The monitoring system can further be capable of analyzing the sleep of the user(s) without directly contacting or attaching uncomfortable probes to the user(s) and without having to analyze the sleep in an unknown environment (e.g., a medical facility).

IPC 8 full level  
**A61B 5/024** (2006.01); **A61B 5/01** (2006.01); **A61B 5/0408** (2006.01); **A61B 5/053** (2006.01); **A61B 5/08** (2006.01); **A61B 5/103** (2006.01); **A61B 5/11** (2006.01); **A61B 5/113** (2006.01)

CPC (source: CN EP US)  
**A61B 5/01** (2013.01 - EP US); **A61B 5/02055** (2013.01 - CN US); **A61B 5/02405** (2013.01 - EP); **A61B 5/02444** (2013.01 - EP US); **A61B 5/053** (2013.01 - EP US); **A61B 5/0816** (2013.01 - EP); **A61B 5/1102** (2013.01 - EP); **A61B 5/113** (2013.01 - EP US); **A61B 5/282** (2021.01 - EP US); **A61B 5/304** (2021.01 - EP); **A61B 5/327** (2021.01 - US); **A61B 5/4806** (2013.01 - CN); **A61B 5/4815** (2013.01 - EP US); **A61B 5/6891** (2013.01 - CN); **A61B 5/6892** (2013.01 - CN EP US); **A61B 5/7278** (2013.01 - US); **A61B 5/02405** (2013.01 - US); **A61B 5/02438** (2013.01 - US); **A61B 5/0816** (2013.01 - US); **A61B 5/1036** (2013.01 - EP US); **A61B 5/1102** (2013.01 - US); **A61B 5/1126** (2013.01 - US); **A61B 5/6843** (2013.01 - EP US); **A61B 2560/0242** (2013.01 - CN EP US); **A61B 2560/0252** (2013.01 - US); **A61B 2562/0214** (2013.01 - EP US); **A61B 2562/0247** (2013.01 - EP US); **A61B 2562/046** (2013.01 - EP US)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**US 10512432 B2 20191224**; **US 2018042556 A1 20180215**; CN 109561840 A 20190402; CN 109561840 B 20211119; CN 114010169 A 20220208; EP 3474741 A2 20190501; EP 4223217 A2 20230809; EP 4223217 A3 20231227; US 11375957 B2 20220705; US 11918381 B2 20240305; US 2020107785 A1 20200409; US 2022330893 A1 20221020; WO 2018031898 A2 20180215; WO 2018031898 A3 20180315

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**US 201715675478 A 20170811**; CN 201780049410 A 20170811; CN 202111373040 A 20170811; EP 17755620 A 20170811; EP 23166495 A 20170811; US 2017046521 W 20170811; US 201916551602 A 20190826; US 202217855440 A 20220630